

TREBIN, F.A.; SHCHERBAKOV, G.V.

Analysis of methods for hydrodynamic studies of wells. Neft.khbz.
35 no.3:22-30 Mr '57. (MLRA 10:4)
(Oil wells) (Hydrodynamics)

TREBIN, F.A.

93-6-18/20

AUTHOR: Trebin, F.A.

TITLE: The Petroleum Industry of Burma (Neftyanaya promyshlennost' Birmy) *35*

PERIODICAL: Neftyanoye khozyaystvo, 1957, Nr 6, pp. 64-67 (USSR)

ABSTRACT: This is a comprehensive study of Burma's petroleum industry from 1797 to 1956 and includes detailed information on the location and production of oil fields and refineries. There is a map of the oil-bearing regions of Burma and a photograph of an oil field in the Chauk-Laniva region. The two references are USSR.

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Card 1/1

TREBIN, F.A.

Technical progress of the petroleum industry during the past 40 years.
Neft.khoz. 35 no.11:15-25 N '57. (MIRA 10:11)
(Petroleum industry)

TREBIN, F.A.; ONOPRIYENKO, V.P.

Distribution of water-oil saturation in a porous medium in
connection with the displacement of oil by water. Azerb. neft.
khoz. 36 no.4:15-19 Ap '57. (M.RA 10:6)
(Oil field flooding)

TOPCHIYEV, A.V., akad., red.; TROFIMUK, A.A., red.; TREBIN, F.A., doktor tekhn. nauk, red.; FEDYNISKIY, V.V., doktor fiziko-matematicheskikh nauk, red.; SUKHANOV, V.P., inzh., red.; BORODULINA, K.M., ved. red.; DOBRYNINA, N.P., ved. red.; PETROVA, Ye.A., ved. red.; TROFIMOV, A.V., tekhn. red.

[The Fourth International Petroleum Congress] Rome, 1955. IV Mezhdunarodnyi neftianoi kongress. Moskva, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry. Vol. 10. [Supplements and discussions] Dopolneniya i diskussii. 1958. 475 p. (MIRA 11:11)

1. Chlen-korrespondent AN SSSR (for Trofimuk). 2. Chleny delegatsii SSSR na IV Mezhdunarodnom neftyannom kongresse (for Topchiyev, Trofimuk, Trebin, Fedynskiy, Sukhanov).
(Rome--Petroleum--Congresses)

TREBIN, F.A.; SHCHERBAKOV, G.V.

Simplified method for interpreting results of pressure restoration
in wells taking into account fluid inflow after their depletion.
Neft. khoz. 36 no.5:37-41 My '58. (MIRA 11:6)
(Oil fields)

SOV/93-58-8-9/15

AUTHOR: Trebin, F. A., Borisov, Yu. P., and Mukharskiy, E. D.

TITLE: The Determination of Reservoir Characteristics by
Means of Pressure Build-up Curves Which Include the
Effect of Flow Into the Well After Shut-in (K
opredeleniyu parametrov plasta po krivym vosstanovleniya
davleniya s uchetom pritoka zhidkosti v skvazhinu posle
yeye zakrytiya)

PERIODICAL: Neftyanoye khozyaystvo, 1958, Nr 8, pp. 38-46 (USSR) ³⁶

ABSTRACT: The prevailing methods for determining reservoir
characteristics by means of pressure build-up curves
[Ref. 1, 2] assume that a well is shut off at the
bottom at the beginning of the test. Actually, a
well is shut off at the top and the flow into the bore
hole continues at a diminishing rate. VNII has
established by means of a hydraulic integrator [Ref. 4]
that when the build-up data refer to a period of
negligible influx the well may be considered as shut
off at the beginning of the test and the results will
be reliable. American scientists have established the

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The Determination of Reservoir (Cont.)

same fact by using an electrical analyzer [Ref. 10]. The shortcoming of this method is that it requires shutting off the well for a long period which consequently results in loss of production. In view of this shortcoming, the authors of the present article made a critical evaluation of Soviet and American pressure build-up curve construction and interpretation methods including the effect of influx into a well after shut-in [Ref. 4, 5, 6, 7, 8, 9]. As a result it is now possible to determine the reservoir characteristics by the pressure build-up data on the initial curve sections. The authors investigated 30 flowing wells at the Bavly oilfield, where they worked in collaboration with the NPU of Bavlyneft' and the TatNII Institute. They state that well 71 at the Sokolovogorskoye oil field is not a

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The Determination of Reservoir (Cont.)

SOV/93-58-8-9/15

typical example of pressure build-up in free flowing wells since the inclusion of the effect of flow into the well after shut-in and the exclusion of this effect gave practically the same results. The authors state that the differential method of Yu. P. Borisov [Ref. 4] is based on the solution of M. Muskat [Ref. 3] for point drainage in an infinite reservoir under elastic filtration conditions and varying yield. The equation developed by Borisov is

$$\Delta P = \frac{\mu}{4\pi kh} \int_0^t \frac{q_0 - q(\tau)}{t - \tau} - \frac{c\pi p}{4\kappa(t - \tau)} d\tau$$

where q_0 is the producing rate prior to shut-in, $q(\tau)$ - producing rate at time interval τ after shut-in, t - time interval for ΔP , pressure build-up. The other symbols are the same as those employed in the theory of filtration. The integral method of Barenblatt and co-authors [Ref. 5] is based on the solution of Fourier's boundary conditions at the wall of the well were obtained

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The Determination of Reservoir (Cont.)

SOV/93-58-8-9/15

by comparing the influx into the well in accordance with Darcy's Law, and the problem was solved by the operational method with the aid of the LaPlace Transform. The final expression for free flowing wells is

$$\psi = \frac{S\bar{P}_r(S)}{\frac{Q}{Q\gamma}[(f_u + f_k)\bar{P}_r(S) - f_u\bar{P}_e(S) - f_k\bar{P}_b(S)]} = -\frac{Q\mu}{4\pi k h} \ln 0.793 \frac{rc^2}{\mu} S$$

where ψ is a function of S , dependent on the time interval of the well test. The other symbols are the same as those employed in Borisov's formula. The integral and differential methods of I. A. Charnyy and I. D. Umrikhin [Ref. 6] are based on the solution of M. Muskat [Ref. 3] for compressible fluid flow towards

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The Determination of Reservoir (Cont.)

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the annual drainage radius a . Here the formula is

$$P(r,t) = -\frac{\mu}{4\pi kh} \int_0^t Q(\tau) \frac{e^{-\frac{a^2+r^2}{4k(t-\tau)}}}{t-\tau} \times I_0 \left[\frac{a^2}{2k(t-\tau)} \right] d\tau$$

where I_0 is the sign of Bessel's function of the first kind, zero order from the imaginary argument. The other symbols are the same as those employed in the earlier formulas. The method suggested by other Soviet and American authors [Ref. 7, 8, 9] considers the partial influx into the well after shut-in and the results are obtained empirically without a suitable hydrodynamic basis. The authors of the present article verify all these methods by means of theoretical pressure build-up curves and present the results in Figs. 1-4. The field data on free flowing wells are published in "Neftyanoye khozyaystvo," 1958, Nr 9. There are 4 figures and 10 references, 7 of which are Soviet and 3 English.

- 1. Petroleum industry
- 2. Wells--Mathematical analysis
- 3. Electrical equipment--Applications

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11(0)

SOV/93-58-9-7/17

AUTHOR: Trebin, F.A., Borisov, Yu.P., and Mukharskiy, E.D.

TITLE: The Determination of Reservoir Characteristics by Means of Pressure Build-up Curves Which Include the Effect of Flow Into the Well After Shut-in (K opredeleniyu parametrov plasta po krivym vosstanovleniya davleniya s uchetom zhidkosti v skvazhinu posle yeye zakrytiya)

PERIODICAL: Neftyanoye khozyaystvo, 1958, Nr 9, pp 40-47 (USSR)
³⁶
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ABSTRACT: This is a continuation of an article published in "Neftyanoye khozyaystvo," 1958, Nr 8. In that article the authors analyzed integration and differentiation methods for processing data on reservoir pressure build-up. In the present article the authors present the results of processing pressure build-up data by the integration and differentiation methods (Table 1 and Figs. 5-7). The study has determined that Yu.P. Borisov's differentiation method which takes into account the effect of flow into the well after shut-in is of considerable practical value. Table 2 and Fig. 6 present reservoir characteristics which were determined by Yu.P. Borisov's method. There are 3 figures and 2 tables.

Card 1/1

TREBIN, F. A., KRYLOV, A. P., BORISOV, Y. A., KOROTKOV, S. T., BUCHIN, A. N.,
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KOZLOV, A. L., and MINSKIY, E. M.

"Development of the Theory and Practice of Oil and Gas Field Production
in the USSR."

Report submitted at the Fifth World Petroleum Congress, 30 May -
5 June 1959. New York City.

TREBIN, F. A., TREBIN, G. F. (SECTION II)

"Hydraulic Characteristics of Porous Reservoirs."

Report submitted at the Fifth World Petroleum Congress, 30 May -
5 June 1959. New York.

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"Progress of Turbodrilling and Studying New Methods of Drilling Wells
in the USSR"

Report submitted at the Fifth World Petroleum Congress, 30 May -
5 June, 1959. New York City.

TREBIN, F.A.; SHCHERBAKOV, G.V.

Instructions for using a simplified method for the interpretation
of the results of pressure restoration in wells considering the
fluid flow after the shutting in of the wells. Neft. khoz. 37
no.1:55-57 Ja '59. (MIRA 12:3)
(Oil reservoir engineering)

KALAMKAROV, V.A.; KRYLOV, A.P.; TREBIN, F.A.

General plan for the development of the Romashkino oil field
and its introduction. Neft. khoz. 38 no.4:1-8 Ap '60.

(Romashkino region--Oil fields--Production methods)
(MIRA 14:8)

TREBIN, F. A. and SGROKIN, A. I.

"The Progress of Gas Distribution in the USSR"

report presented at the Eighth International Gas conference at Stockholm,
28 30 June 61

SOROKIN, A.I.; TREBIN, F.A.

Development of the gas supply in the U.S.S.R. Gas. prom. 6 no.6:
6-11 '61. (MIRA 14:9)
(Distribution)

TREBIN, Foma A., SOROKIN, A. I.

"The progress of gas distribution in the USSR."

report to be submitted for the International Gas Union, 8th Intl. Gas Conf.,
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In 1956 reported as Chief, Oil Division, Mashinoexport, Ministry of Foreign Trade
USSR, (TREBIN).

FEDYNSKII, V.V., doktor fiziko-matem. nauk, red.; LEVINSON, V.G., kand. geol.-mineral. nauk, red.; TOPCHIYEV, A.V., akad. NAGIYEV, M.F., akad., red.; SHUYKIN, N.I., red.; MIRCHINK, M.F., red.; TREBIN, F.A., doktor tekhn. nauk, red.; SANIN, P.I., doktor khim. nauk; SUKHANOV, V.P., inzh., red.; PANOV, V.V., kand. tekhn. nauk, red.; IONEL', A.G., vedushchiy red.; ZARETSKAYA, A.I., vedushchiy red.; FEDOTOVA, I.G., tekhn. red.

[Reports of the International Petroleum Congress. 5th New York, 1959]
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skva, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry.
Vol.1. [Geology and geophysics] Geologiya i geofizika. Pod red. V.V.
Fedynskogo i V.G.Levinsona. 1961. 382 p. (MIRA 14:9)

1. International Petroleum Congress. 5th, New York, 1959. 2. AN Azer-
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Shuykin, Mirchink).

(Petroleum geology) (Gas, Natural—Geology)
(Prospecting—Geophysical methods)

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Solution to the problem of one-dimensional unsteady flow of gas
through porous media with the aid of the M-2 high speed digital
computer. Gaz.prom. 6 no.4:1-9 '61. (MIRA 14:3)
(Gas, Natural)

TREBIN, F.A.; KREMS, N.K.

Further development of general automatic control in oil and gas production. Neft.khoz. 39 no.1:28-34 1 Ja '61. (MIRA 17:3)

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Geological bases for increasing oil and gas recovery in the
U.S.S.R. in 1961-1980. Neft. khoz. 40 no.6:1-6 Je '62.
(MIRA 15:6)
(Petroleum geology)

SOROKIN, A.I., red.; ALEKSANDROV, A.V., red.; KLIMUSHIN, A.M.,
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red.; ZUBAREVA, Yelena Ivanovna, ved. red.; SOLGANIK,
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[Techniques used in the gas industry of foreign countries]
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1. International Gas Congress. 7th, Stockholm. 1961.

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LAPUK, B.B., MINSKY, YE.M., TREBIN, F.A.

2

Scientific principles of the development of gas fields in the USSR

Report to be submitted for the Sixth World Petroleum Congress,
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TREBIN, F.A.; MAKOGON, Yu.F.

Certain results of laboratory investigations of hydrate formation.
Trudy MINKHiGP no.42:196-209 '63.
(MIRA 17:3)

"APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R001756510020-4

TREBIN, F.A.; TSAYGER, M.A.; RYABTSEV, N.I.

Unit for the study of reservoir disintegration resulting from gas
flow. Trudy MINKHIGP no.42:222-227 '63.
(MIRA 17:3)

APPROVED FOR RELEASE: 03/20/2001

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SOROKIN, A.; TREBIN, F.A.; CHICHAK, L.M.; POFOV, A.

Foreign technology. Gaz. prem. 2 no.4:50-54 '63.

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GARIFULLINA, N. Kh.; ZAKIROV, S.N.; LAPUK, B.B.; TREBIN, F.A. (Moscow):

"The solution of problems of underground hydrogasdynamics by
numerical methods".

report presented at the 2nd All-Union Congress on Theoretical and Applied
Mechanics, Moscow, 29 Jan - 5 Feb 64.

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TREBIN, F.A., doktor tekhn. nauk, prof., red.;
LATUKHINA, Ye.I., ved. red.

[Testing prospecting wells] Ispytanie razvedochnykh skva-
zhin. Moskva, Izd-vo "Nedra," 1964. 164 p. (MIRA 17:4)

VASIL'YEV, Viktor Grigor'yevich; CHERSKIY, Nikolay Vasil'yevich;
THEBIN, F.A., doktor tekhn. nauk, prof., red.;
LATUKHINA, Ye.I., ved. red.

[Testing of exploratory wells in the U.S.S.R.] Ispytanie
razvedochnykh skvazhin. Moskva, Izd-vo "Nedra," 1964. 164 p.
(MIRA 17:6)

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Electronic data processing in the gas industry. Gaz. prom. SSSR:
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MAKSIMOV, M.I.; TREBIN, F.A.

Accomplishments of Soviet petroleum workers in the
development of oil fields. Neft. khoz. 42 no.9/10:
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(MIRA 17:1)

APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R001756510020-4"

"APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R001756510020-4

LAPUK, B.B.; SAVCHENKO, V.P.; TREBIN, F.A.

Scientific fundamentals of the development of gas and
gas-condensate fields. Neft. khoz. 42 no.9/10:132-137
S.O '64.
(MIRA 17:12)

APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R001756510020-4"

BYMKOV, R.M.; LASH, B.B.; TIKHIN, F.A.

Overall solution of the problem of the development of a group of
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TREBIN, F.A.; BERNSHTEYN, M.A.; YELOVNIKOV, S.I.; RULEV, N.A.; SOLNTSEV, O.A.

Prospects for the development of the gas and oil industries of
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TREBIN, Foma Andreyevich; SHCHERBAKOV, Gennadiy Vladimirovich;
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ved. red.

[Hydromechanical methods for the study of wells and layers]
Gidromekhanicheskie metody issledovaniia skvazhin i plastov.
Moskva, Nedra, 1965. 275 p. (MIRA 18:5)

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Express method for testing wells based on pressure build-up curves.
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New method for determining the optical density of petroleum.

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1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.

TESLYUK, Ye.V.; ROZENBERG, M.D.; KAPYRIN, Yu.V.; TREBIN, G.F.

Nonisothermal multiphase flow and the calculation of thermodynamic
effects in the development of oil fields. Trudy VNII no.42:281-293
'65. (MIRA 18:5)

TESLYUK, Ye.V.; KAPYRIN, Yu.V.; TREBIN, G.F.

Estimating the efficiency of thermal drive. Neft. khoz. 40 no.8:
42-49 Ag '62. (MIRA 17:2)

KAPRIN, Yu.V.; TREBIN, G.F.

Crystallization of paraffins from formation petroleum. Nauch. tekhn. sbor. po nefti no. 37:70-6. '65. (MIRA 18:9)

1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.

MAMUNA, Vladimir Nikolayevich; TREBIN, Carol'd Fomich; UL'YANINSKIY,
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menenie. Moskva, Gos. nauchno-tekhn. izd-vo neft. i gorno-
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(Oil field brines—Analysis)

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CIA-RDP86-00513R001756510020-4

TESLYUK, Ye.V.; TREBIN, G.F.; OSTROVSKIY, Yu.M.

Theoretical investigations of the flow of mutually soluble
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(MIRA 18:5)

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BABAU, VERA, DIMITRIYEVNA, TRIBAL, N.F.; GOMBERG, V.V.

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CIA-RDP86-00513R001756510020-4"

VASIL'YEV, V.N.; GROMOVA, A.A.; KAPYRIN, Yu.V.; TULBIN, G.F.

Studying viscosity at increased temperatures. Nauch.-tekhn. sbor.
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1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.

TREBIN, G.F.; KAPYRIN, Yu.V.; VASIL'YEV, V.N.

Thermograph with contact temperature-sensitive element for
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(MIRA 17:8)

1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.

TREBIN, G.F.; KAPYRIN, Yu.V.

Crystallization of paraffin in the bottom zone of oil wells.
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TEPLYUK, Ye.V.; TREBIN, G.F.; GTOVSKY, Yu.M.

Flow of mutually soluble fluids under conditions of plane-radial
flow and in current pipes of variable cross section. Trudy VNTI
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(in RA 2787)

KAPYRIN, Yu.V.; TREBIN, G.F.; POZIN, L.Z.

Using temperature effects in investigating the wells of the
Romashkino field. Neft. khoz. 42 no. 3:26-32 Mr '64.
(MIRA 17:7)

KAPYRIN, Yu.V.; TREBIN, G.F.

Estimating errors in the investigation of deep-well oil
samples. Nauch.-tekhn. sbor. po dob. nefti no.21;62-67 '63.
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1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy
institut.

TESLYUK, Ye.V.; KAPYRIN, Yu.V.; TREBIN, G.F.

Solving certain problems of heat conductivity and flow occurring
in petroleum production involving the use of thermal drive. Trudy
(MIRA 16:6)
VNII no.37:271-289 '62.
(Petroleum production, Thermal)

SAVINIKHINA, A.V.; TREBIN, G.F.

Using ultrasonic waves for studying petroleum systems. Nauch.-
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1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.
(Oil reservoir engineering)
(Ultrasonic waves--Industrial applications)

TREBIN, G.F.; MAMUNA, V.N.; UL'YANINSKIY, B.V.

Extraction of oil samples from beam wells in Fergana Valley
fields. Nauch.-tekhn. sbor. po dob. nefti no.1:62-64 '58.
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(Fergana—Oil reservoir engineering)

SALATINYAN, I.Z.; FOKEYEV, V.M.; TREBIN, G.F.

Effect of pressure decline and free gas separation on the rate
of wax precipitation in pipes. Nauch.-tekhn. sbor. po dob. nefti
no.15:91-94 '61. (MIRA 15:9)

1. Vsescouznyy neftegazovyy nauchno-issledovatel'skiy institut.
(Petroleum pipelines) (Paraffin wax)

SALATINYAN, I.Z.; TREBIN, G.F.; FOKEYEV, V.M.

Effect of the rate of petroleum flow on the deposition of paraffin
on pipe walls. Izv. vys. ucheb. zav.; neft' i gaz 3 no.10:49-53
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1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti
imeni akademika I.M.Gubkina.
(Paraffins)

YAKOVLEV, Vasiliy Pavlovich. Prinimal uchastiye TREBIN, G.F., kand.tekhn.
nauk. FEDOTOVA, I.G., tekhn.red.

[Oil well operator] Operator po issledovaniyu neftianykh skvazhin.
Izd.2., perer. i dop. Moskva, Gos.nauchno-tekhn.izd-vo neft. i
gorno-toplivnoi lit-ry, 1959. 306 p. (MIRA 12:11)
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Report submitted at the Fifth World Petroleum Congress, 30 May -
5 June 1959. New York.

TREBIN, Gavril'd Fomich; MURAV'IEV, I.M., prof., doktor tekhn.nauk, red.;
KAYESEKOVA, S.M., vedushchiy red.; FEDOTOVA, I.G., tekhn.red.

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Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry,
1959. 156 p. (MIRA 13:2)

(Filters and filtration)

TREBIN, G.F.; SAVINIKHINA, A.V.; KAPYRIN, Yu.V.; GROMOVA, A.A.

Certain results of the study of the crystallization of paraffin
from the reservoir oil of the Bitkov oil field. Nauch.-tekhn. stor.
po dob. nefti no.24:43-47 '64. (MIRA 17:10)

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KAFYRIN, Yu.V.; TREBIN, G.F.

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C₆H₆ 74.1, EtOH 18.5, and H₂O 7.4% is determined using Swieto-
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0.12% at 61.86° and 1 atm., and the mean sp. heat, $C_{p, m} = 0.571$ g.-
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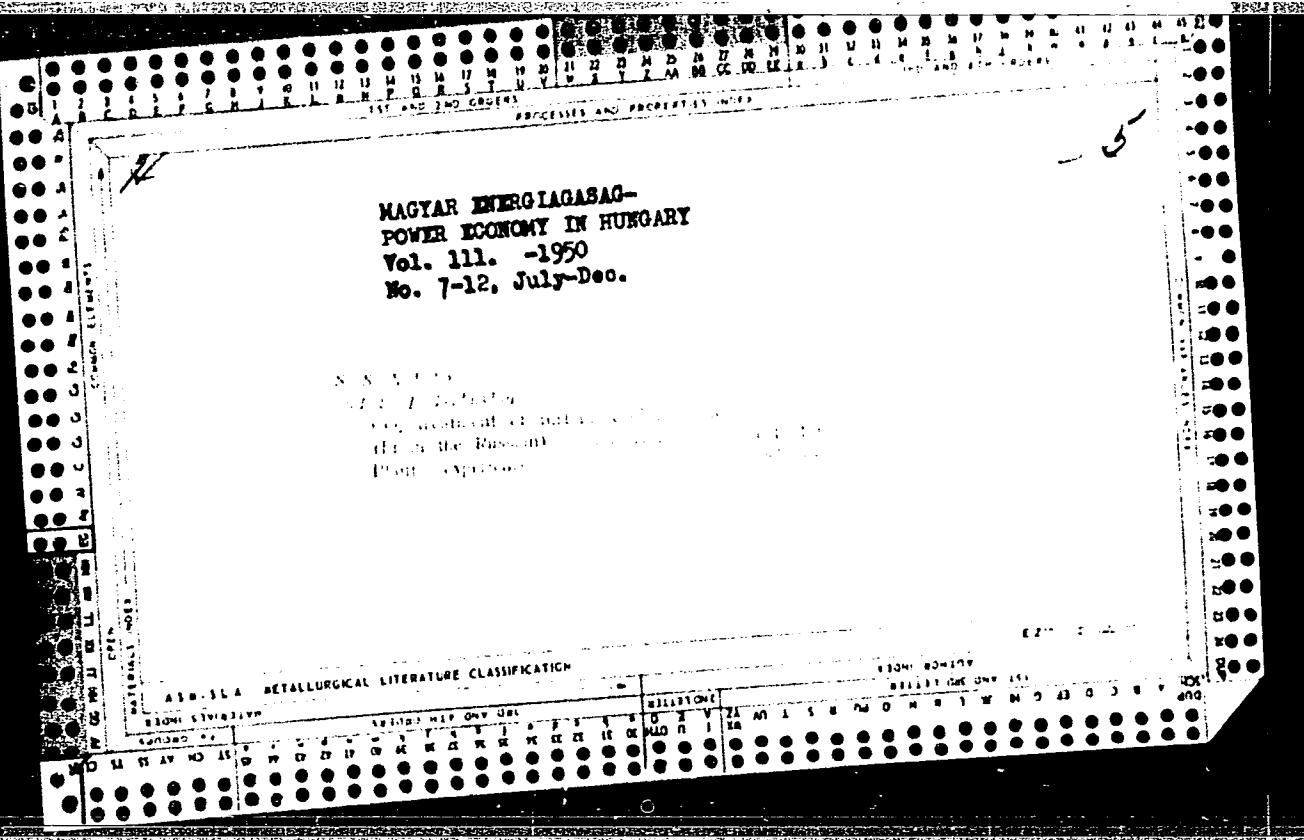
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